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## **CLAIMS**

- 1. An aqueous pharmaceutical composition comprising:
- from 1 to 100 mg/mL of a fluoroquinolone active agent; from 0 to 100 mg/mL of a steroidal or non-steroidal anti-inflammatory agent; from 1 to 50% by weight of cyclodextrin;

from 0.1 to 25 molar equivalents of a hydroxy acid;

from 0 to 20% by weight of a co-solibilizer; and

- 10 water to balance,
  - said formulation having a pH between 4 and 7.
  - 2. The composition according to claim 1, wherein said cyclodextrin is selected from the group consisting of  $\alpha$  cyclodextrins,  $\beta$  cyclodextrins,  $\gamma$  cyclodextrins, and  $\delta$  cyclodextrins.
- 15 3. The composition according to claim 1, wherein said cyclodextrin is selected from the group consisting of sulfoalkylether cyclodextrins and hydroxyalkyl cyclodextrins.
  - 4. The composition according to claim 1, wherein said hydroxy acid is selected from the group consisting of citric acid, ascorbic acid, malic acid, and tartaric acid.
  - 5. The composition according to claim 1, further comprising from 0.001 to 2 percent by weight of a preservative.
  - 6. The composition according to claim 1, further comprising a preservative selected from the group consisting of chlorobutanol, sorbic acid, and EDTA.
- The composition according to claim 1, further comprising: from 0.05 to 5 % by weight of a soluble polymer.
  - 8. The composition according to claim 7, wherein said soluble polymer is selected from the group consisting of methylcellulose, carboxymethylcellulose, hydroxypropylmethylcellulose, polyvinylpyrrolidone, polyvinyl alcohol, and poloxamers.
  - 9. The composition according to claim 1, wherein said fluoroquinolone is selected from the group consisting of Gatifloxacin, Moxifloxacin, Sitafloxacin, Lomefloxacin, Grepafloxacin, Gemifloxacin, Norfloxacin,

Ofloxacin, Levofloxacin, Trovafloxacin, Ciprofloxacin and combinations thereof.

- 10. The composition according to claim 1, wherein said steroidal or non-steroidal anti-inflammatory compound is a steroidal compound and is selected from the group consisting of cortisone, hydrocortisone, corticosterone, deoxycorticosterone, prednisolone, methylprednisolone, meprednisone, triamcinolone, paramethasone, fluprednisolone, betamethasone, dexamethazone, fludrocortisone, and combinations thereof.
- 11. The composition according to claim 1, wherein said steroidal or non-steroidal anti-inflammatory compound is a non-steroidal compound and is selected from the group consisting of aspirin, diclofenac, indomethacin, sulindac, ketoprofen, flurbiprofen, ibuprofen, naproxen, piroxicam, tenoxicam, tolmetin, ketorolac, oxaprosin, mefenamic acid, fenoprofen, nambumetone, acetaminophen, nimesulide, NS-398, flosulid, L-745337, celecoxib, rofecoxib, SC-57666, DuP-697, parecoxib sodium, JTE-522, valdecoxib, SC-58125, etoricoxib, RS-57067, L-748780, L-761066, APHS, etodolac, meloxicam, and S-2474, and combinations thereof.
- 12. A method of treating a bacterial infection of an eye of a subject in need thereof, comprising topically administering a formulation according to claim
  1 to the eye of said subject in an amount effective to treat said bacterial infection.
  - 13. A pharmaceutical formulation comprising:

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from 1 to 100 mg/mL of a fluoroquinolone active agent;

from 0 to to 100 mg/mL of a steroidal or non-steroidal anti-inflammatory agent;

from 1 to 50% by weight of cyclodextrin;

from 0.1 to 25 molar equivalents of a hydroxy acid.

A pharmaceutical formulation according to claim 13 in lyophilized form which when reconstituted with water produces an aqueous pharmaceutical composition having a pH between 4.5 and 7 and comprising:

from 1 to 100 mg/mL of a fluoroquinolone active agent;

from 1 to 50% by weight of cyclodextrin;

from 0.1 to 25 molar equivalents of a hydroxy acid; and water to balance.

15. The composition according to claim 13, wherein said cyclodextrin is selected

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- from the group consisting of  $\alpha$  cyclodextrins,  $\beta$  cyclodextrins,  $\gamma$  cyclodextrins, and  $\delta$  cyclodextrins.
- 16. The composition according to claim 13, wherein said cyclodextrin is selected from the group consisting of sulfoalkylether cyclodextrins and hydroxyalkyl cyclodextrins.
- 17. The composition according to claim 13, wherein said hydroxy acid is selected from the group consisting of citric acid, ascorbic acid, malic acid, and tartaric acid.
- 18. The composition according to claim 13, further comprising from 0.001 to 2 percent by weight of a preservative.
  - 19. The composition according to claim 18, said preservative selected from the group consisting of chlorobutanol, sorbic acid, and EDTA.
  - 20. The composition according to claim 14, further comprising: from 0.05 to 5 % by weight of a soluble polymer.
- The composition according to claim 21, wherein said soluble polymer is selected from the group consisting of methylcellulose, carboxymethylcellulose, hydroxypropylmethylcellulose, polyvinylpyrrolidone, polyvinyl alcohol, and poloxamers.
- 22. The composition according to claim 13, wherein said fluoroquinolone is selected from the group consisting of Gatifloxacin, Moxifloxacin, Sitafloxacin, Lomefloxacin, Grepafloxacin, Gemifloxacin, Norfloxacin, Ofloxacin, Levofloxacin, Trovafloxacin, Ciprofloxacin and combinations thereof.
- 23. The composition according to claim 13, wherein said steroidal or nonsteroidal anti-inflammatory compound is a steroidal compound and is
  selected from the group consisting of cortisone, hydrocortisone,
  corticosterone, deoxycorticosterone, prednisolone, methylprednisolone,
  meprednisone, triamcinolone, paramethasone, fluprednisolone,
  betamethasone, dexamethazone, fludrocortisone, and combinations thereof.
- 30 24. The composition according to claim 13, wherein said steroidal or non-steroidal anti-inflammatory compound is a non-steroidal compound and is selected from the group consisting of aspirin, diclofenac, indomethacin, sulindac, ketoprofen, flurbiprofen, ibuprofen, naproxen, piroxicam,

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tenoxicam, tolmetin, ketorolac, oxaprosin, mefenamic acid, fenoprofen, nambumetone, acetaminophen, nimesulide, NS-398, flosulid, L-745337, celecoxib, rofecoxib, SC-57666, DuP-697, parecoxib sodium, JTE-522, valdecoxib, SC-58125, etoricoxib, RS-57067, L-748780, L-761066, APHS, etodolac, meloxicam, and S-2474, and combinations thereof.

- 25. In a method of topically applying a pharmaceutical composition containing an active compound to the eye of a subject in need thereof, which active compound precipitates from said composition on the cornea of said subject, the improvement comprising: including a soluble polymer in said composition in an amount effective to reduce the precipitation of said active compound on the cornea of said subject.
- 26. The method according to claim 25, wherein said soluble polymer is selected from the group consisting of methylcellulose, carboxymethylcellulose, hydroxypropylmethylcellulose, polyvinylpyrrolidone, and polyvinyl alcohol, and poloxamers.
- 27. The method according to claim 25, wherein said active compound is a fluoroquinolone.
- 28. The method according to claim 25, said pharmaceutical composition further comprising a steroidal or non-steroidal anti-inflammatory compound.
- 29. In a topical pharmaceutical composition containing an active compound used to topically apply said active compound to the eye of a subject in need thereof, which active compound precipitates from said composition on the cornea of said subject, the improvement comprising: including from 0.05 to 5% by weight of a soluble polymer in said composition in an amount effective to reduce the precipitation of said active compound on the cornea of said subject.
  - 30. The composition according to claim 29, wherein said soluble polymer is selected from the group consisting of methylcellulose, carboxymethylcellulose, hydroxypropylmethylcellulose, polyvinylpyrrolidone, and polyvinyl alcohol, and poloxamers.
  - 31. The composition according to claim 29, wherein said active compound is a fluoroquinolone.
  - 32. The composition according to claim 29, said composition further comprising a steroidal or non-steroidal anti-inflammatory compound.